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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/445,769	04/19/2000	DO-HYOUNG KIM	Q57164	1355

7590 03/29/2007  
SUGHRUE MION ZINN MACPEAK & SEAS  
2100 PENNSYLVANIA AVENUE NW  
WASHINGTON, DC 20037-3202

EXAMINER
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PEYTON, TAMMARA R

ART UNIT	PAPER NUMBER
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2182

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
31 DAYS	03/29/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/445,769	KIM, DO-HYOUNG	
	<b>Examiner</b>	<b>Art Unit</b>	
	Tammara R Peyton	2182	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 28 February 2007.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 2-4,8,9,13 and 16-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☒ Claim(s) 2-4,8,9,13 and 16-18 are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                             | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)         | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____                                    |

***Election/Restrictions***

This application contains claims directed to the following patentably distinct species of the claimed invention:

Species 1, claims 2-4, 8, 9, and 13 are directed to a method for displaying changes in operation states of network devices on a display screen of a client device which operates as a client in a network where various digital devices connected to the network operate as one of the client and server devices, the method comprising the steps of:

(a) receiving, at the client device, a predetermined signal that indicates changes in the operation states of the server devices, from the server devices, and displaying the change in the operation state of a specific device on a screen thereof, wherein the client device establishes said communication channel with respect to the server devices by periodic polling in the step (a), wherein said periodic polling occurs at regular intervals.

Species 2, claim 16 are directed to a method for displaying changes in operation states of network devices on a display screen of a client device which operates as a client in a network where various digital devices connected to the network operate as the client or as servers, the method comprising the steps of: (a) establishing a communication channel by the client device with respect to server devices; (b) receiving a predetermined signal that indicates changes in the operation states of the server devices from the server devices by the client device and displaying the change in the

operation state of a specific server device on a screen thereof, wherein in order to determine whether there is a change in the operation state of the specific server device, the client device memorizes a previous operation state of the specific server device, compares a current operation state indicated by said predetermined signal to said previous operation state, and determines whether the previous operation state and the current operation state are different.

Species 3, claim 17 is directed to a method for displaying changes in operation states of network devices on a display screen of a client device which operates as a client in a network where various digital devices connected to the network operate as the client or the servers, having the same protocol layer as an Internet protocol stack on the upper network communication layer (physical layer), comprising the steps of: receiving data on the operation states of the server devices connected to the network bus by the client device, in a network communication layer; examining whether the previous operation state data of the server devices is different from the current operation state data by the client device, in a network communication layer; transmitting the current operation state of a server device by the client device, whose previous operation state data is different from the current operation state data from the network communication layer, to a hypertext transmission protocol (HTTP) layer which is the upper most protocol layer of the client device; and displaying the change of the operation state of the concerned server device by the client device on a screen thereof, according to the contents

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transmitted to the HTTP layer, wherein in order to examine whether the previous operation state data and the current operation state data is different, the client device memorizes the previous operation state data, compares the current operation state data to said previous operation state data, and determines whether the previous operation state data and the current operation state data are different.

Species 7, claim 18 is directed to a method for displaying changes in operation states of network devices on a display screen of a client device which operates as a client in a network where various digital devices connected to the network operate as one of a client and a server, comprising the steps of: receiving data on current operation states of the network devices connected to a network bus, by the client device; examining whether previous operation state data of the network devices is different from current operation state data of the network devices, by the client device; transmitting current operation state data of at least one of the network devices, by the client device, when previous operation state data of said at least one of the network devices is different from the current operation state data of said at least one of the network devices, to a hypertext transmission protocol (HTTP) layer; and displaying a change of an operation state of said at least one of the network devices, by the client device on a screen thereof, according to contents transmitted to the HTTP layer, wherein wherein in order to examine whether the previous operation state data and the current operation state data is different, the client device memorizes the previous operation state data, compares the current operation state data to said previous operation state data, and

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determines whether the previous operation state data and the current operation state data are different.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP 5809.02(a).

Should applicant traverse on the ground that the species are not patentability distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over

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the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tammara Peyton whose telephone number is (571) 272-4157. The examiner can normally be reached between 6:30 - 4:00 from Monday to Thursday, (I am off every first Friday), and 6:30-3:00 every second Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Huynh can be reached on (571) 272-4083. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300. Any inquiry of a general nature of relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-2100.

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Mailed responses to this action should be sent to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231.

Faxes for Official/formal (After Final) communications or for informal or draft communications (please label "PROPOSED" or "DRAFT") sent to:

(571) 273-8300

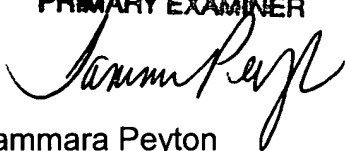
Hand-delivered responses should be brought to:

USTPO, Randolph Building, Customer Service Window

401 Dulany Street

Alexandria, VA 22314.

**TAMMARA PEYTON**  
**PRIMARY EXAMINER**



Tammara Peyton

March 19, 2007